

ABSTRACT OF THE DISCLOSURE

A self-joining polymer composition, comprising a polymer, a plurality of amine pendant groups attached to the polymer and a plurality of microcapsules
5 of flowable polymerizable material dispersed in the polymer where the microcapsules of flowable polymerizable material including microcapsules and flowable polymerizable material inside the microcapsules. The microcapsules are effective for rupturing with a failure of the polymer so the flowable polymerizable material cross-links with the reactable pendant groups upon
10 rupture of the microcapsules.